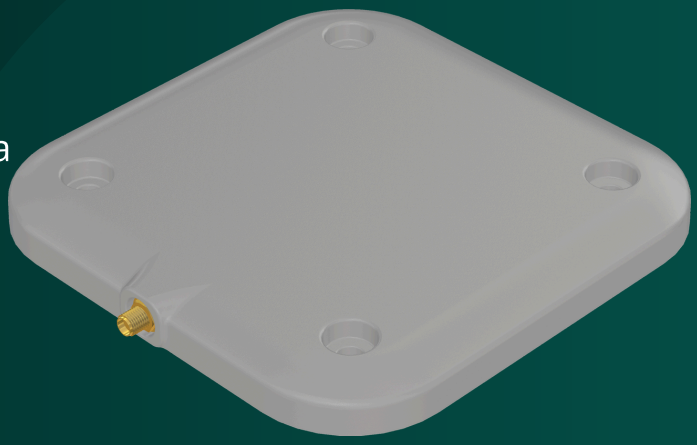
IDCRAFT
RFID & NFC EXPERTS

UHF RFID | RAIN - Far-Field Panel Antenna

Times-7 - A5020CX



- 5.5 dBiC typ. gain, 105° beam in both planes
- Right-hand circular polarisation, AR 2 dB
- IP68 and IP69K for high-pressure washing
- Typical read range of 4 m
- Flush or 100 x 100 mm VESA mounting

UHF RFID | RAIN - Far-Field Panel Antenna
Rugged 5.5 dBiC typ. circular antenna, IP68/IP69K, 14.5 mm

The Times-7 A5020CX combines the performance of the A5020CP with the ultra-rugged durability of the A5020LX. A right-hand circularly polarised element delivers 5.5 dBiC typical gain with a 105° 3 dB beamwidth in both planes and a typical read range of 4 m, in a compact 150.7 x 149.4 mm grey housing that is only 14.5 mm deep.

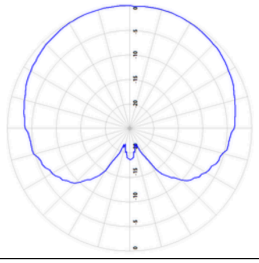
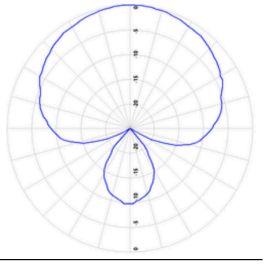
Typical VSWR is 1.4, the axial ratio 2 dB and the front-to-back ratio 10 dB. The antenna covers 865–868 MHz (ETSI) or 902-928 MHz (FCC) and works with any UHF RFID reader with a 50 Ω antenna port; a 10 kΩ detection resistance lets readers identify it.

The flame-retardant, UV-resistant grey ABS radome is rated IP68 and IP69K, so the antenna withstands high-pressure, high-temperature cleaning and aggressive cleaning agents in food processing, clean rooms and outdoor installations without corroding. Recessed corner holes allow flush mounting or fitting to 100 x 100 mm VESA brackets. The SMA jack exits on the side; the optional A5020 Connector Protection Backplate shields it on brackets in free space.

Common Applications

- Food Processing Plants
- Clean Rooms
- Wash-Down Production Lines
- Industrial Asset Tracking
- Waste Management
- Outdoor Installations

RADIATING PATTERNS

A5020CX XZ Plane	A5020CX YZ Plane
	

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UHF RFID | RAIN - Far-Field Panel Antenna

TECHNICAL SPECIFICATIONS

Electrical

Frequency Range	865–868 MHz (ETSI) 902–928 MHz (FCC)
Polarisation	Right-hand circular
Far-Field Gain	5.5 dBiC typical
3 dB Beamwidth	105° in both planes, typical
VSWR	1.4 typical
Axial Ratio	2 dB typical
Front-to-Back Ratio	10 dB typical
Impedance	50 Ω
ESD Protection	Yes, DC grounded
Antenna Detection	10 kΩ resistance
Max. Input Power	3 W

Ordering Information

A5020CX, ETSI, grey	75494
A5020CX, FCC, grey	75493
Connector Protection Backplate	72394

Mechanical

Dimensions	150.7 x 149.4 x 14.5 mm
Boxed Dimensions	180 x 155 x 25 mm
Net Weight	0.23 kg
Gross Weight	0.28 kg
Radome	Flame-retardant, UV-resistant ABS
Colour	Grey
Connector	SMA jack, side exit
Mounting	Flush or 100 x 100 mm VESA

Environmental

Protection Class	IP68 and IP69K
Operating Temperature	-30 to +65 °C
Storage Temperature	-30 to +65 °C
Compliance	RoHS, REACH, CE data on request